ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M02535	Client:	Alaskan Copper Works
Date Received:	06/12/08	Project:	PO M02535, F&BI 806133
Date Extracted:	06/17/08	Lab ID:	806133-01 x10
Date Analyzed:	06/17/08	Data File:	806133-01 x10.074
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	hr
		Lower	IInnou

문료가수 회사는 6세 기가 가지 그 것으로 있었는	endigetook dogt believed.	Lower	Upper
Internal Standard:	% Recovery:	Limit:	Limit:
Germanium	97	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	630
Nickel	688
Copper	629
Zinc	28.4

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

AND HIS REPORTS		
Client ID:	Method Blank	Client: Alaskan Copper Works
Date Received:	Not Applicable	Project: PO M02535, F&BI 806133
Date Extracted:	06/17/08	Lab ID: I8-225 mb
Date Analyzed:	06/17/08	Data File: 18-225 mb.060
Matrix:	Water	Instrument: ICPMS1
Units:	ug/L (ppb)	Operator: hr

		Lower	Opper
Internal Standard:	% Recovery:	Limit:	Limit:
Germanium	103	60	125
Holmium	101	60	125
	T 7		4. 15. 1.

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<1

ENVIRONMENTAL CHEMISTS

Date of Report: 06/20/08 Date Received: 06/12/08

Project: Metro Self Monitor, PO M02535, F&BI 806133

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 806119-08 (Duplicate)

		Sample	Duplicate	Relative Percent	Acceptan	ce
Analyte	Reporting Units	Result	Result	Difference	e Criteria	
Chromium	ug/L (ppb)	<1	<1	nm	0-20	
Nickel	ug/L (ppb)	2.02	1.81	11	0-20	
Copper	ug/L (ppb)	3.28	3.02	8	0-20	
Zinc	ug/L (ppb)	1.32	1.04	24 a	0-20	

Laboratory Code: 806119-08 (Matrix Spike)

	Analyte	Reporting Units	Spike Level	20110000000000000000000000000000000000		Acceptance Criteria
•	Chromium	ug/L (ppb)	20	<1	99	50-150
	Nickel	ug/L (ppb)	20	2.02	90	50-150
	Copper	ug/L (ppb)	20	3.28	88	50-150
	Zinc	ug/L (ppb)	50	1.32	80	50-150

Laboratory Code: Laboratory Control Sample

		Spike	Percent Recovery	Acceptance	
Analyte	Reporting Units	Level	LCS	Criteria	\$ ×
Chromium	ug/L (ppb)	20	106	70-130	₹.
Nickel	ug/L (ppb)	20	100	70-130	
Copper	ug/L (ppb)	20	99	70-130	
Zinc	ug/L (ppb)	50	82	70-130	

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 More than one compound of similar molecule structure was identified with equal probablility.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte indicated may be due to carryover from previous sample injections.
- d The sample was diluted. Detection limits may be raised due to dilution.
- ds The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb The analyte indicated was found in the method blank. The result should be considered an estimate.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht The sample was extracted outside of holding time. Results should be considered estimates.
- ip Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The result is below normal reporting limits. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the compound indicated is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The pattern of peaks present is not indicative of diesel.
- y The pattern of peaks present is not indicative of motor oil.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 20, 2008



INVOICE #08ACU0620-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO M02535, F&BI 806133 - Results of testing requested by Gerry Thompson for material submitted on June 12, 2008.

FEDERAL TAX ID #(b) (6)

80,6133 SA	MPLE CHAIN OF CUSTODY	ME 06-1.	2-08 AI4
Sond Roport To GORDES THOMPSON Company ALASKAN Capper works Address 628 S. Handend ST	PROJECT NAME/NO. Mestro Self monitor	PO# MOZ535	Page #of
City, State, ZIP SCATTLE WA S8134 Phone # 206 8 H-6073 Fax # 206-382-4309	REMARKS		SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

5. S		ANALYSES REQUESTED			ANALYSES REQUESTED													
	Sample ID	Lab ID	late Sanpled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPII-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	IIFS	colombos			8	3	Notes
	MO2535	01	6/1/08	12.30pm	HO	1							X					
													·					
	e																	
						TE C									v			
	,				ii.													
\cdot	ý																	
			20															
																ž)		
																		4.

Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinguished	Covered Thompsu	Ace	6/2/08	1:24pm
Received by:	30 112	FBI		
Relinquished b:	a 1	Samples receive	1 - 21	0.0
Received by:		3441495 TCGC1VC	u at 💋	Ç

FORMS\COC\COC.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 20, 2008

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on June 12, 2008 from the Metro Self Monitor, PO M02535, F&BI 806133 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0620R.DOC